Practical No-02 (Group A)

Name: Jadhav Swapnil Janardhan

Roll No: S211047

Div: A

Batch: A2

Problem Statement: Develop and oriented program in c++ to create a data base of student information system containing following information Name, Roll no, class , Div , DOB , Blood Group, contact address , mobile no , driving licence no , and other construct data base with sutaible member function for initializing and destroying data with constructor , default constructor ,copy constructor ,destructor ,static member function , friend class , this pointer, inline code and dynamic memory allocation operator new and delete as well as axception handling.

Program code:

#include<iostream>  
using namespace std;  
class studentinfo  
{ private:  
string name,cllg,add,roll\_no,dob;  
char cl,div,blood\_group;  
double mob,driving\_licence;  
public:  
static int count;  
static void xyz()  
{  
count++;  
cout<<"COUNTING:"<<'\t'<<count;  
}  
studentinfo()  
{  
cout<<"constructor is involed"<<endl;  
name=" ",  
cllg=" ",  
add=" ";  
roll\_no=" ";  
dob=" ";  
cl=' ';  
div=' ';  
blood\_group=' ';  
mob=0.0;  
driving\_licence=0.0;  
}  
~studentinfo()  
{cout<<"dest is invoked";  
}  
  
friend class g;  
};  
int studentinfo::count=0;  
class g  
{public :  
  
void getdata(studentinfo &t)  
{  
cout<<"enter name: ";  
getline(cin,[t.name](http://t.name));  
cout<<"roll no: ";  
cin>>t.roll\_no;  
cout<<"date of birth: ";  
cin>>t.dob;  
cout<<"enter class: ";  
cin>>[t.cl](http://t.cl);  
cout<<"enter division: ";  
cin>>t.div;  
cout<<"enter blood grp: ";  
cin>>t.blood\_group;  
cout<<"enter mobile no: ";  
cin>>t.mob;  
cout<<"enter driving licence: ";  
cin>>t.driving\_licence;  
}  
inline void display(studentinfo &t)  
  
{  
cout<<"object address"<<this<<endl;  
cout<<"name is:"<<'\t'<<[t.name](http://t.name)<<endl;  
cout<<"roll no:"<<'\t'<<t.roll\_no<<endl;  
cout<<"date of birth:"<<'\t'<<t.dob<<endl;  
cout<<"enter class:"<<'\t'<<[t.cl](http://t.cl)<<endl;  
cout<<"enter division:"<<'\t'<<t.div<<endl;  
cout<<"enter blood grp:"<<'\t'<<t.blood\_group<<endl;  
cout<<"enter mobile no:"<<'\t'<<t.mob<<endl;  
cout<<"enter driving licence:"<<'\t'<<t.driving\_licence<<endl;  
}};  
int main()  
{  
studentinfo a;  
  
g b;  
b.getdata(a);  
b.display(a);  
[a.xyz](http://a.xyz)();  
int \*age = new int(25);  
cout<<"integer age is:"<<\*age<<endl;  
delete age;  
return 0;  
}

Output:

